Docket No.: HUM00-23 (2976-4037)
(As Amended)

Currently pending claims (USSN 09/627,465)

34. (Unamended) An isolated nucleic acid molecule selected from the group consisting of:

(a) SEQ ID NO:1;

(b) a complementary nucleic acid sequence of SEQ ID NO:1; and

(c) a nucleic acid sequence comprising at least 50 nucleotides which hybridizes under stringent conditions to SEQ ID NO:1.

35. (Unamended) The isolated nucleic acid molecule according to claim 34, said nucleic acid being DNA.

36. (Unamended) The isolated nucleic acid molecule according to claim 34, said nucleic acid being RNA.

37. (Unamended) An expression vector containing the nucleic acid molecule of claim 34.

38. (Unamended) A host cell containing the vector of claim 37.

39. (Unamended) The host cell according to claim 38 which is a eukaryotic cell.

40. (Unamended) The host cell according to claim 38 which is a human cell.

41. (Unamended) The host cell according to claim 38 which is a prokaryotic cell.

42. (Unamended) Isolated DNA or RNA comprising at least 50 consecutive nucleotides of SEQ ID NO:1, or a complementary nucleic acid sequence of SEQ ID NO:1.

43. (Unamended) An isolated nucleic acid molecule which hybridizes to the DNA or RNA of claim 42 under high stringency conditions.

44. (Unamended) The isolated nucleic acid molecule according to claim 43, wherein high stringency conditions of hybridization comprise low ionic strength and high temperature during washing.

45. (Unamended) The isolated nucleic acid molecule according to claim 43, wherein high stringency conditions of hybridization are selected from the group consisting of:

(a) 0.015 M NaCl and 0.0015 M sodium citrate, pH 7.0 (0.1x SSC) and 0.1% sodium dodecyl sulfate (SDS) at 50°C during washing;

(b) 50% (v/v) formamide, a mixture of 0.1% w/v highly purified bovine serum albumin, 0.1% w/v Ficoll and 0.1% w/v polyvinylpyrrolidone (5 x Denhardt's), 50 mM sodium phosphate buffer at pH 6.5 and 5x SSC at 42°C during hybridization; and

(c) 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5x Denhardt's solution, sonicated salmon sperm DNA (50 µg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C for hybridization, and washing at 42°C in 0.2x SSC and 0.1% SDS.

46. (Unamended) An expression vector containing the DNA or RNA of claim 42.

47. (Unamended) An expression vector containing the DNA or RNA of claim 43.

48. (Unamended) A host cell containing the vector of claim 46.

49. (Unamended) A host cell containing the vector of claim 47.

50. (Unamended) The host cell according to claim 48 selected from the group consisting of a eukaryotic cell, a human cell and a prokaryotic cell.

51. (Unamended) The host cell according to claim 49 selected from the group consisting of a eukaryotic cell, a human cell and a prokaryotic cell.

52. (Unamended) A polynucleotide comprising at least 15 consecutive nucleotides of any of the nucleic acids of Table 5, wherein the 15 consecutive nucleotides include a single nucleotide polymorphism (SNP) site selected from Table 5.

53. (Unamended) An isolated nucleic acid molecule of SEQ ID NO:1, wherein the nucleic acid molecule contains at least one single nucleotide polymorphism (SNP) of Table 5.

54. (Unamended) An isolated nucleic acid fragment comprising at least 15 consecutive nucleotide bases of BAC RP11-0702C13 of SEQ ID NO:1.

55. (Unamended) An isolated nucleic acid fragment comprising at least 40 consecutive nucleotide bases of BAC RP11-0702C13 of SEQ ID NO:1.

56. (New) An isolated nucleic acid molecule selected from the group consisting of:

(a) SEQ ID NO:2;

(b) a nucleic acid sequence encoding amino acid sequence SEQ ID NO:3;

(c) a complementary nucleic acid sequence of SEQ ID NO:2; and

(d) a nucleic acid sequence comprising at least 50 nucleotides which hybridizes under stringent conditions to SEQ ID NO:2.

57. (New) The isolated nucleic acid molecule according to claim 56, said nucleic acid being DNA.

58. (New) The isolated nucleic acid molecule according to claim 56, said nucleic acid being RNA.

59. (New) An expression vector containing the nucleic acid molecule of claim 56.

60. (New) A host cell containing the vector of claim 59.

61. (New) The host cell according to claim 60 which is a eukaryotic cell.

62. (New) The host cell according to claim 60 which is a human cell.

63. (New) The host cell according to claim 60 which is a prokaryotic cell.

64. (New) Isolated DNA or RNA comprising at least 50 consecutive nucleotides of SEQ ID NO:2, or a complementary nucleic acid sequence of SEQ ID NO:2.

65. (New) An isolated nucleic acid molecule which hybridizes to the DNA or RNA of claim 64 under high stringency conditions.

66. (New) The isolated nucleic acid molecule according to claim 65, wherein high stringency conditions of hybridization comprise low ionic strength and high temperature during washing.

67. (New) The isolated nucleic acid molecule according to claim 65, wherein high stringency conditions of hybridization are selected from the group consisting of:

(a) 0.015 M NaCl and 0.0015 M sodium citrate, pH 7.0 (0.1x SSC) and 0.1% sodium dodecyl sulfate (SDS) at 50°C during washing;

(b) 50% (v/v) formamide, a mixture of 0.1% w/v highly purified bovine serum albumin, 0.1% w/v Ficoll and 0.1% w/v polyvinylpyrrolidone (5 x Denhardt's), 50 mM sodium phosphate buffer at pH 6.5 and 5x SSC at 42°C during hybridization; and

(c) 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5x Denhardt's solution, sonicated salmon sperm DNA (50 μg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C for hybridization, and washing at 42°C in 0.2x SSC and 0.1% SDS.

68. (New) An expression vector containing the DNA or RNA of claim 64.

69. (New) An expression vector containing the DNA or RNA of claim 65.

70. (New) A host cell containing the vector of claim 68.

71. (New) A host cell containing the vector of claim 69.

72. (New) The host cell according to claim 68 selected from the group consisting of a eukaryotic cell, a human cell and a prokaryotic cell.

73. (New) The host cell according to claim 69 selected from the group consisting of a eukaryotic cell, a human cell and a prokaryotic cell.

74. (New) An isolated variant of SEQ ID NO:2, wherein the variation contains at least one single nucleotide polymorphism (SNP) of Table 5.